

Message Text

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FOLLOWING REPEAT STATE 222457 ACTION HAMILTON INFO AFCRL

AFSC/DOSF USNAS BERMUDA DATED 16 SEP 75

QUOTE

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E.O. 11652:N/A

TAGS: TSPA

SUBJECT: NASA LEAR JET SUPPORT OF AFCRL CONJUGATE POINT
PROJECT

1. U.S. AIR FORCE CAMBRIDGE RESEARCH LABORATORY (AFCRL),
MAX PLANCK INSTITUTE (MPI) OF GERMANY, AND ARGENTINE
SPACE RESEARCH INSTITUTE ARE COOPERATING IN A SOUNDING
ROCKET PROGRAM TO STUDY GEOMAGNETIC FIELD. SHAPED-
CHARGE BARIUM RELEASES WILL BE PROJECTED ALONG A FIELD
LINE FROM AN INJECTION POINT IN ARGENTINA TO CONJUGATE
POINT NORTH OF BERMUDA. TWO SOUNDING ROCKET LAUNCHINGS
AND RELEASES WILL BE MADE IN PERIOD SEPT 29 - OCT 17,
1975.

2. AIRBORNE OBSERVATIONS NEAR CONJUGATE POINT OF 37
DEGREES 30 MINUTES NORTH, 64 DEGREES 20 MINUTES WEST ARE
DESIRED TO SUPPLEMENT GROUND OBSERVATIONS FROM BERMUDA
AND NANTUCKET, MASSACHUSETTS.

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3. AIR FORCE C-130 NO LONGER AVAILABLE, CONSEQUENTLY NASA HAS BEEN ASKED TO OBTAIN REQUIRED AIRBORNE OBSERVATIONS USING LEAR JET AIRCRAFT FROM AMES RESEARCH CENTER.

4. AIRCRAFT CALL NUMBER NASA 705. STAGING WILL BE FROM U.S. NAVAL AIR STATION BERMUDA. OBSERVATIONS TO BE MADE NEAR CONJUGATE POINT AT 40,000 FT. CHOICE OF FLIGHT ROUTE DEPENDS UPON NUMBER OF FACTORS SUCH AS TRAJECTORY OF RELEASE, VELOCITY OF RELEASE, LOCATION OF CONJUGATE POINT, FIELD OF VIEW OF CAMERAS, ELEVATION ANGLE OF CAMERAS.

5. AIRCRAFT WILL BE ACCOMPANIED TO BERMUDA BY EIGHT PEOPLE: 3 NASA EMPLOYEES, 3 NASA CONTRACTORS FROM NORTHROP SERVICES INCORPORATED, EXPERIMENTER FROM AFCRL, AND ONE NASA CONTRACTOR FROM W.V. STERLING.

6. PLANS ARE FOR AIRCRAFT TO BE ON STAND-BY EVERY DAY DURING LAUNCH WINDOW SEPT 29 - OCT 17, 1975. REHEARSAL TO BE HELD ON SEPT 26 TO BECOME FAMILIAR WITH SKY BACK-GROUND AND TO COORDINATE FLIGHT ROUTE WITH LOCAL AIR TRAFFIC CONTROL AGENCIES. THEREAFTER PROFICIENCY FLIGHT SIMULATING OBSERVATIONS WILL BE MADE EVERY SECOND DAY UNTIL THE TWO LAUNCHINGS ARE MADE IN ORDER TO KEEP ALL SYSTEMS AND CREWS AT PEAK READINESS. LAUNCHINGS WILL BE MADE DURING MORNING TWILIGHT.

7. AFCRL WILL SUPPLY DIRECT COMMUNICATIONS BETWEEN ARGENTINE LAUNCH BASE AND OBSERVATIONS STATIONS IN BERMUDA. AIRCRAFT WOULD DEPART NAVAL AIR STATION WITHIN 5 MINUTES OF CONFIRMATION OF LAUNCH.

8. AIRCRAFT WILL CARRY IMAGE INTENSIFIER CAMERA AND FLIGHT RESEARCH PHOTOGRAPHIC CAMERA SUPPLIED BY AFCRL. CAMERAS WILL BE PLACED AT TWO STARBOARD WINDOWS AND WILL RECORD MORPHOLOGY OF BARIUM CLOUD NEAR CONJUGATE POINT.

9. AIRCRAFT ALSO CARRY NASA PROVIDED GYRO STABILIZED MIRROR SYSTEM (HELIOSTATE) AND INERTIAL NAVIGATION SYSTEM (INS) WITH REMOTE DISPLAYS OF POSITION AND UNCLASSIFIED

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AIRCRAFT ATTITUDE. THESE DISPLAYS, TOGETHER WITH TIME CODE READOUT, WILL BE PHOTOGRAPHED FOR CORRELATION WITH BARIUM CLOUD PHOTOGRAPHS.

10. PILOT WILL FILE INTERNATIONAL FLIGHT PLANS.

11. REQUEST CLEARANCE FOR NASA AIRCRAFT FOR PERIOD SEPT 24 - OCT 17 AND ADVISE. KISSINGER

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